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FIG. 1

The diagram illustrates the secondary structure of the 3' terminal region of the 23S ribosomal RNA of *E. coli*. Key features include:

- Stem-Loop I (Ia, Ib, Ic, Id, Ie, IV):** A large, complex structure at the bottom, with sub-regions Ia, Ib, Ic, Id, Ie, and IV. It contains several internal loops and stems, with nucleotide positions 25, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, and 342 marked.
- Stem-Loop II (IIa, IIb, IIc, IIId):** A structure on the left side, with sub-regions IIa, IIb, IIc, and IIId. It includes a small loop at position 75 and a larger loop at position 100.
- Stem-Loop III (IIIa, IIIb, IIIc, IIId):** A structure on the right side, with sub-regions IIIa, IIIb, IIIc, and IIId. It features a large loop at position 150 and a smaller loop at position 200.
- Stem-Loop IV:** A small structure at the bottom right, with a loop at position 342.
- Stem-Loop V:** A small structure at the bottom left, with a loop at position 25.
- Stem-Loop VI:** A small structure at the bottom center, with a loop at position 125.
- Stem-Loop VII:** A small structure at the bottom right, with a loop at position 300.
- Stem-Loop VIII:** A small structure at the bottom right, with a loop at position 325.
- Stem-Loop IX:** A small structure at the bottom right, with a loop at position 342.

FIG. 2

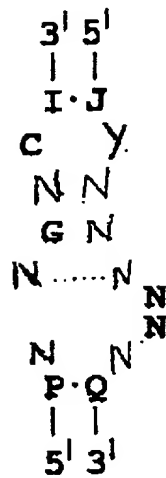


FIG. 4

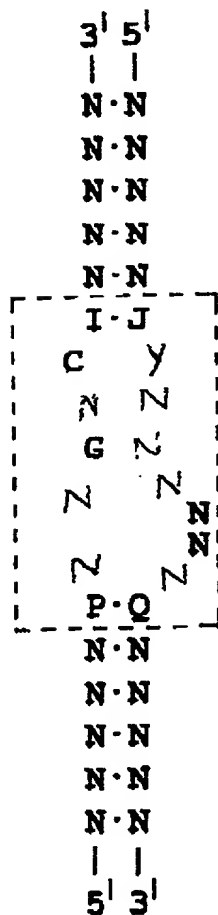
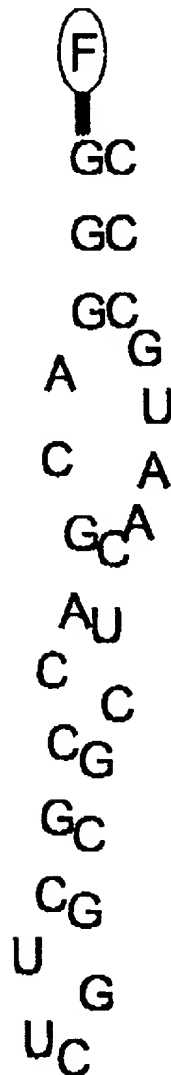


FIG. 6A



HCV mIRES RNA

FIG. 6B



19mer (control)

FIG. 3A

| | |
|------------|---------|
| gi 1009264 | GACGACC |
| gi 1160327 | ----- |
| gi 1438429 | ----- |
| gi 1181831 | ----- |
| gi 1197128 | --A---T |
| gi 1805843 | -GT---- |
| gi 1930117 | -GT---- |
| gi 1066559 | --A---T |
| gi 1066561 | --T---- |
| gi 1805796 | ----- |
| gi 329915 | --T---- |
| gi 1066557 | ----- |
| gi 1066567 | ----- |
| gi 2388526 | --T---- |
| gi 1066617 | --T---- |
| gi 1930119 | --T---- |
| gi 1183032 | -TT---- |
| gi 1197096 | --A---T |
| gi 2809127 | ----- |
| gi 1009258 | --T---- |
| gi 1009266 | ----- |
| gi 1066565 | ----- |
| gi 1066577 | ----- |
| gi 1805846 | ----- |
| gi 1805851 | ----- |
| gi 1805853 | A-A---T |
| gi 2465799 | -GT---- |
| gi 2605601 | ----- |
| gi 2809126 | ----- |
| gi 2809128 | ----- |
| gi 296246 | --A---T |
| gi 3152988 | -GT---- |
| gi 3152993 | --T---- |
| gi 3152997 | ----- |
| gi 474334 | --T---- |

FIG. 3B

| | | |
|------------|---------|-----|
| gi 1009264 | GCTCAA | TGC |
| gi 1160327 | ----- | --- |
| gi 1438429 | ----- | --- |
| gi 1181831 | ----- | --- |
| gi 1197128 | A---T- | --- |
| gi 1805843 | ----- | -A- |
| gi 1930117 | ----- | -A- |
| gi 1066559 | A---T- | --- |
| gi 1066561 | ----- | --- |
| gi 1805796 | ----- | --- |
| gi 329915 | ----- | --- |
| gi 1066557 | ----- | --- |
| gi 1066567 | ----- | --- |
| gi 2388526 | ----- | --- |
| gi 1066617 | ----- | --- |
| gi 1930119 | ----- | --- |
| gi 1183032 | ----- | --- |
| gi 1197096 | A---T- | --- |
| gi 2809127 | ----- | --- |
| gi 1009258 | -----G | --- |
| gi 1009266 | ----- | --- |
| gi 1066565 | ----- | --- |
| gi 1066577 | ----- | --- |
| gi 1805846 | A----- | --- |
| gi 1805851 | -----G- | --- |
| gi 1805853 | A---T- | --T |
| gi 2465799 | ----- | -A- |
| gi 2605601 | ----- | --- |
| gi 2809126 | ----- | --- |
| gi 2809128 | ----- | --- |
| gi 296246 | A---TG | --- |
| gi 3152988 | ----- | -A- |
| gi 3152993 | ----- | --- |
| gi 3152997 | ----- | --- |
| gi 474334 | ----- | --- |

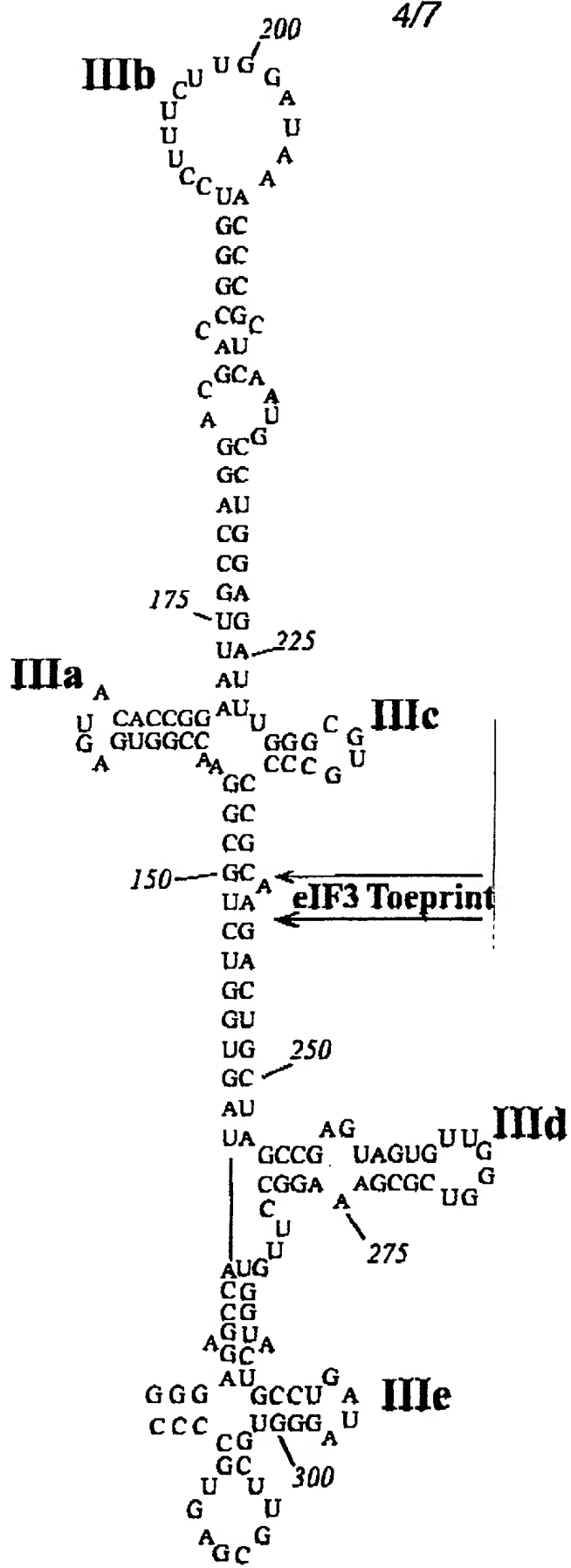


FIG. 5A

eIF3 (+++100%)
 DIII (187nts)
 (W/T + Mutants)

09745470-132200

IIIb

UUGAUAUCCU

UA
 GC
 GC
 GC
 CGC
 CAU
 CGCA
 AU
 CC
 GC
 AU
 CG
 CG
 GA
 UG
 UA

Diagram illustrating a DNA double helix structure. The left strand (3' to 5') has the sequence TGAACG. The right strand (5' to 3') has the sequence ATTCG. A mutation is indicated by a red 'X' over the 'G' in the second position of the right strand, which is now 'C'. The strands are labeled 'Ma' and 'Mc' at their ends.

150—GC

~~250~~

UA AG UUG
GCCG UAGUG
CGGA AGCGC
C A UG
U
U
275

CC
CC
CC

AUG
CG
CG
GU
GCA

U C G A

200

U CACCGG AU U GUGGCC AA GGG C G U
G GUGGCC AA CCC G U
A GC CCC G U

175 GA
UG
UA 225

150—GC_A

250

CC
CC
CC

DIIIΔ2(118nts)

FIG. 5D

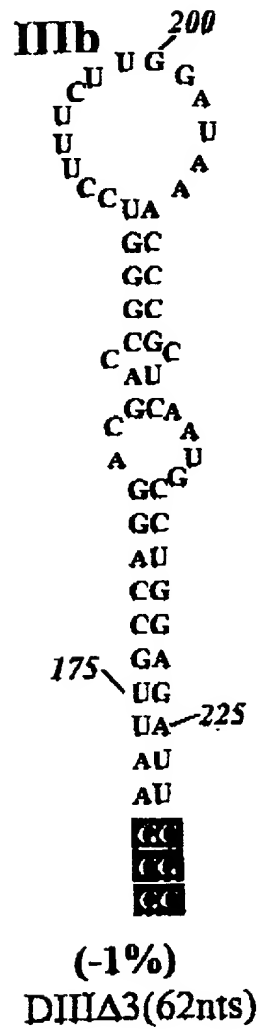


FIG. 5E

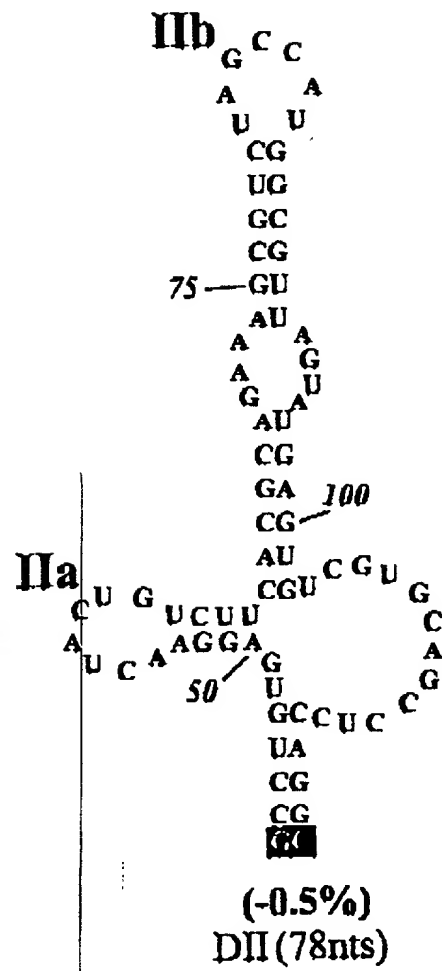


FIG. 7A

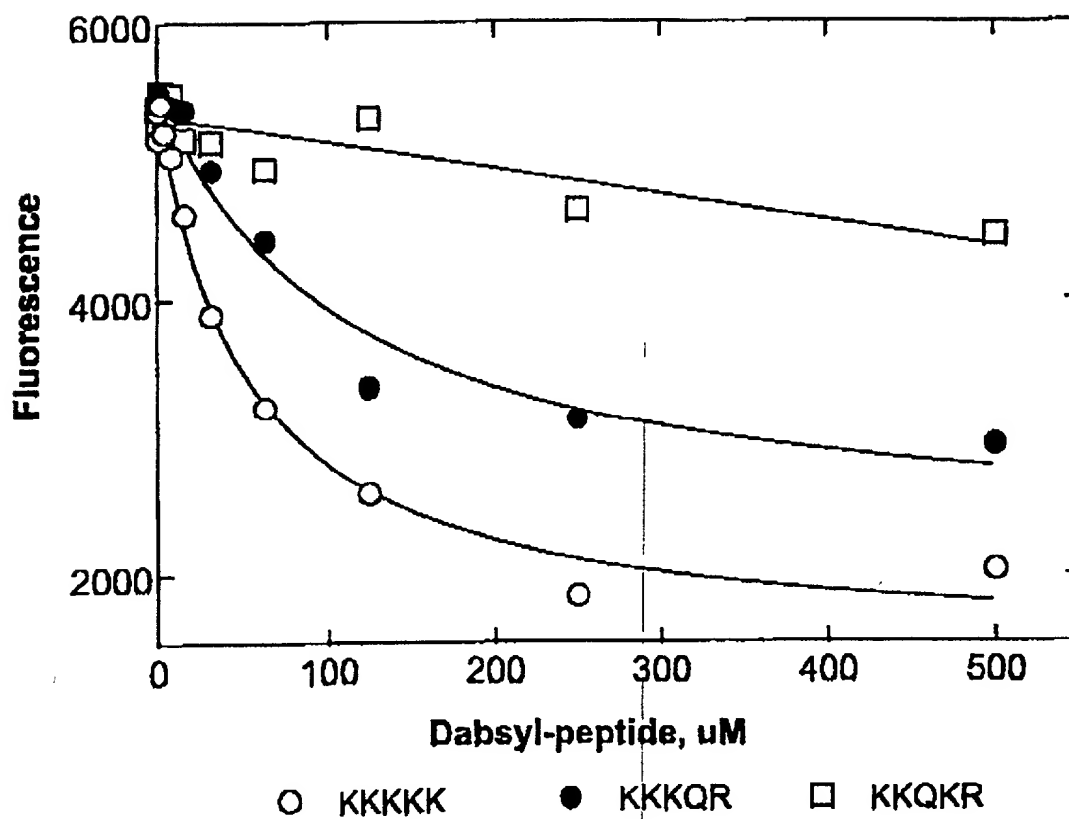


FIG. 7B

